



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

December 11, 2013

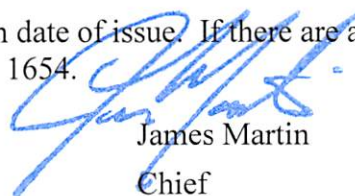
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2100925, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 159791(J.D. SMITH #6119)

Farm Name: WV PUBLIC LAND CORP.

API Well Number: 47-2100925

Permit Type: Plugging

Date Issued: 12/11/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

Date: November 22, 2013
Operator's Well
Well No. 159791 (J.D. Smith #6119)
API Well No.: 47 021 - 00925

2100925 P
ck 1169040
1000

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

- 4) Well Type: Oil _____ Gas X Liquid Injection _____ Waste Disposal: _____
If Gas, Production _____ X Or Underground storage _____ Deep _____ Shallow X
- 5) Elevation: 1027' Watershed: Lower Run of Little Kanawha River
Location: Dekalb 02 County: Gilmer 21 Quadrangle: Tanner 7.5' 634
District: _____
- 6) Well Operator EQT Production Company
120 Professional Place
Address: Bridgeport, WV 26330
- 7) Designated Agent: Rex C. Ray
Address: 120 Professional Place
Bridgeport, WV 26330
- 8) Oil & Gas Bryan Harris
Name: P.O. Box 157
Address: Volga, WV 26238
- 9) Plugging Contractor:
Name: HydroCarbon Well Service
Address: PO BOX 995
Buckhannon, WV 26201

- 10) Work Order: The work order for the manner of plugging this well is as follows:

See Attachment for details and procedures.

RECEIVED
Office of Oil and Gas
NOV 25 2013
WV Department of
Environmental Protection

OFFICE USE ONLY

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector _____

Date _____

OK JNM

PLUGGING PROGNOSIS - Weston

Smith, J.D. # 6119 (159791)

GILMER, COUNTY, WEST VIRGINIA

API # 47-021-00925-D

DeKalb District

BY: Craig Duckworth

ELEV: 1027'

DATE: 10/28/13

CURRENT STATUS:

10" csg @ None Reported
 8 1/4" csg @ 178'
 6 5/8" csg @ 1025'
 3" tbg @ 1991'

TD @ 2006'**Fresh Water @ 70'****Salt Water @ None reported****1st Salt Sand @ 1145'****Coal @ 84'-86'**

Gas shows @ 1561(2nd Salt Sand 1555'-1595'); 1812' & 1843' (Big Lime 1810'-1900'); 1914'-1940' (Big Injun 1900'-1953'))

Oil Shows @ None Reported**Stimulation: Shot 1951'-1913' (120 qts.)**

1. Notify State Inspector, **Bryan Harris 304-553-6087**, 24 hrs. Prior to commencing operations.
2. Attempt to pull 3"tbg, if unable to pull free point and shoot at free point.
3. TIH w/ tbg @ 1991'; Set 260' C1A Cement Plug @ 1991' to 1768' (Gas shows @ 1953'- 1900' Big Injun ;1810'-1900' Big Lime)
4. TOO H w/ tbg @ 1768; gel hole @ 1768' to 1555'.
5. TOO H w/tbg @ 1555'; Set 100' C1A Cement Plug @ 1555' to 1455' (2nd Salt Sand @ 1555')
6. TOO H w/ tbg @ 1455; gel hole @ 1455' to 1145'.
7. TOO H w/ tbg @ 1145'; Set 170' C1A Cement Plug @ 1145' to 975' (Salt Sand @ 1145' & 6 5/8" csg set 1025')
8. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf. all FW, Coal, Oil and Gas shows below 6 5/8" cut. Do not omit any plugs
9. TOO H w/ tbg @ 975'; gel hole @ 975' to 230'
10. TOO H w/ tbg @ 230'; Set 230' C1A Cement Plug @ 230' to Surface (10" csg @ 178')
11. Top off as needed
12. Set Monument to WV-DEP Specifications
13. Reclaim Location & Road to WV-DEP Specifications

ATTEMPT TO REMOVE 6 5/8" casing.

RECEIVED
 Office of Oil and Gas
 NOV 25 2013
 WV Department of
 Environmental Protection



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL RECORD

Permit No. GIL 925 D

Oil or Gas Well
(KIND)

Company Hope Natural Gas Company
Address 445 West Main St., Clarksburg, W. Va.
Farm J.D. Smith Acres 475.75
Location (waters) _____
Well No. 6119 Elev. 1032
District DeKalb County Gilmer
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced deeper July 1, 1952
Drilling completed July 19, 1952
Date Shot 7 24 '52 From 1913 To 1951
With 1200ft
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume 130,000 Cu. Ft.
Rock Pressure 80% lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water none recorded feet _____ feet
Salt water none recorded feet _____ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Pack-
12			
10			Size of
8 3/4	<u>178</u>	<u>178</u>	
8 1/2	<u>1025</u>	<u>1025</u>	Depth set
5 3/16			
2	<u>1991</u>	<u>1991</u>	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED NOT SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT none FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
RECORD OF DEEPER DRILLING.							
Commenced				1815			
Big Line				1900	gas	1843	
Big Injun			1900	1953	gas	1914 1940	
Total depth				2006			



(Over)

508



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

2100925P

WELL RECORD

Permit No. 91L-925

Oil and Gas Well
(Kind)

Company <u>Hope Natural Gas Co.</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>445 W. Main Street, Clarksburg, W. Va.</u>	Size			
Farm <u>J. D. Smith</u> Acres <u>475.75</u>	16			Kind of Packer
Location (waters)	18			
Well No. <u>6119</u> Elev. <u>1032</u>	10			Size of
District <u>DeKalb</u> County <u>Gilmer</u>	8 1/4	<u>178</u>	<u>178</u>	
The surface of tract is owned in fee by	6 3/8	<u>1025</u>	<u>1025</u>	Depth set
Address	8			
Mineral rights are owned by	2	<u>1815</u>	<u>1815</u>	Perf. top
Address	2			Perf. bottom
Drilling commenced <u>2-20-22</u>	Liners Used			Perf. top
Drilling completed <u>3-15-22</u>				Perf. bottom
Date Shot From To				
With				
Open Flow /10ths Water in Inch				
/10ths Merc. in Inch				
Volume Cu. Ft.				
Rock Pressure lbs. hrs.				
Oil bbls., 1st 24 hrs.				
Fresh water 70 feet				
Salt water None Recorded feet				

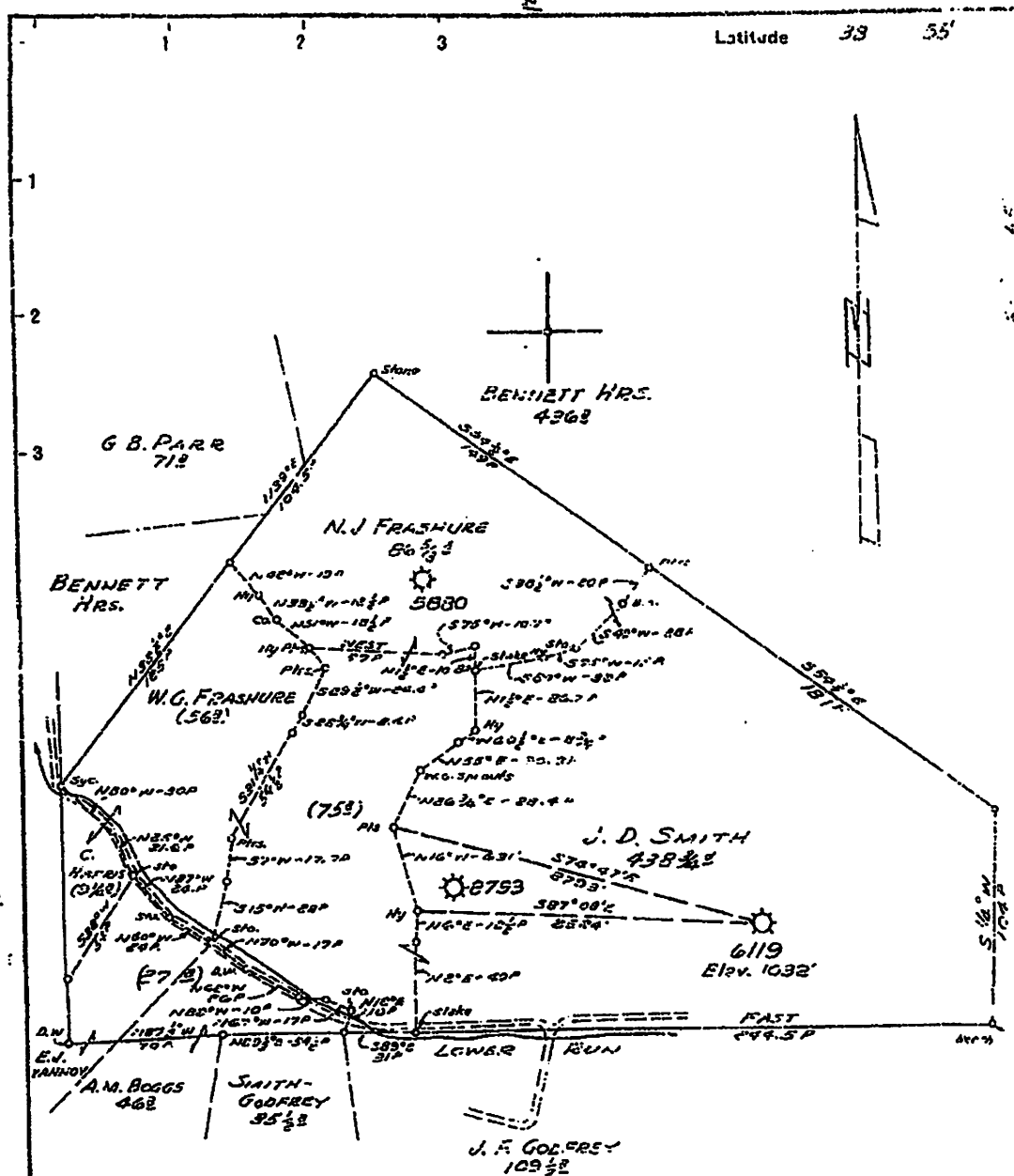
CASING CEMENTED NOT SIZE No. Ft. Date

COAL WAS ENCOUNTERED AT 84 FEET 24 INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Coal			84	86	Water 70'		
Little Dunkard			845	?			
Big Dunkard			?	945			
Gas Sand			1017	1130			
First Salt			1145	1285			
Second Salt			1555	1595	Gas 1 1/2 in	1561	
Macon			1625	1652			
Little Lime			1755	1780			
Pencil Cave			1780	1810	Gas	1812	
Big Lime			1810				
Total Depth				1815			
TO BE DRILLED DEEPER							



(Over)



New Location...
 Drill Deeper... ☒ 6119
 Abandonment... ☐

WELL 6119 - 1032' - F.B. 1000 - 1971-78

Company HOPE NATURAL GAS CO.
 Address CLARKSBURG, W. VA.
 Firm J. D. SMITH
 Tract Acres 47 3/4 Lease No. 29537
 Well (Farm) No. 6119 Serial No. 6119
 Elevation (Spirit Level) 1032'
 Quad. angle GLENNVILLE
 County GILMER District DEKALB
 Engineer W. M. BROWN
 Engineer's Registration No. 900
 File No. 900 Drawing No. 900
 Date JULY 9, 1952 Scale 1" = 60 P. 165

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. GIL-925-D

✦ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

25117

3502

1) Date: November 22, 2013
2) Operator's Well Number
159791 (J.D. Smith #6119)
3) API Well No.: 47 021 - 00925
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
NOTICE AND APPLICATION TO PLUG AND ABANDON WELL

4) Surface Owner(s) to be served:
(a) Name West Virginia Public Land Corp. ✓
Address Real Estate Div/Chuck Lawrence Dir.
900 Pennsylvania Ave.
Charleston WV 25302
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Bryan Harris ✓
Address P.O. Box 157
Volga, WV 26238
Telephone 304-553-6087

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration ✓
Name see attached sheet
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name None
Address _____

TO THE PERSONS NAMED ABOVE:

You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator:
By:
Its:
Address:
Telephone:

EQT Production Company
Victoria J. Roark
Permitting Supervisor
PO Box 280
Bridgeport, WV 26330
(304) 848-0076

Subscribed and sworn before me this

Kathy M. Kugel

22

day of

November, 2013

Notary Public

My Commission Expires:

8-24-2022

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [redacted] or [redacted].



OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
Kugel
#109
WV 26260
Expires August 24, 2022

WW-9
Revised 2/03

Page ____ of ____
2) Operator's Well Number
159791 (J.D. Smith #6119)
3) API Well No.: 47 021 - 00925

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name: EQT PRODUCTION COMPANY OP ID: _____

Watershed: Lower Run of Little Kanawha River Quadrangle: Tanner 7.5'

Elevation: 1027' County: Gilmer District: Dekalb

Description of anticipated Pit Waste: Formation Fluids

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes___ No X

Will synthetic liner be used in the pit? Yes Is so, what ml.? 30 ml

Proposed Disposal Method for Treated Pit Wastes:

- X Land Application
____ Underground Injection - UIC Permit Number _____
____ Reuse (at API Number) _____
____ Offsite Disposal Permit #. _____
____ Other: Explain _____

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. _____

If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? _____

Will closed loop system be used? _____

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc. _____

If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust _____

Landfill or offsite name/permit number? _____

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

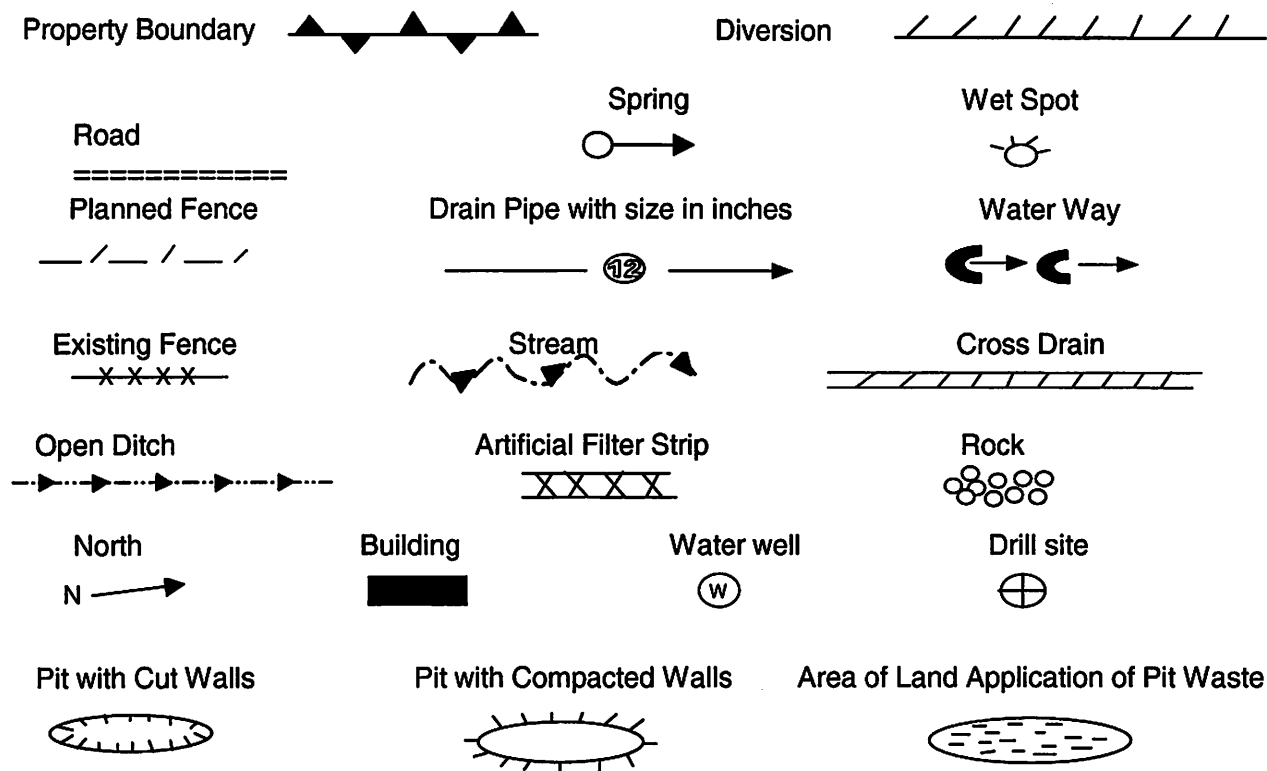
Subscribed and sworn before me this 22 day of November, 2013

Kathy M. Kugel Notary Public
My Commission Expires 8-24-2022



OPERATOR'S WELL NO.:
159791 (J.D. Smith #6119)

LEGEND



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

SEED MIXTURES

Area I

Seed Type	lbs/acre
KY-31	40
Alsike Clover	5
Annual Rye	15

Area II

Seed Type	lbs/acre
Orchard Grass	15
Alsike Clover	5

ATTACH:

Drawing(s) of road, location, pit and proposed area for land application.
 Photocopies section of involved 7.5' topographic sheet.

Plan approved by: _____

Comments: _____

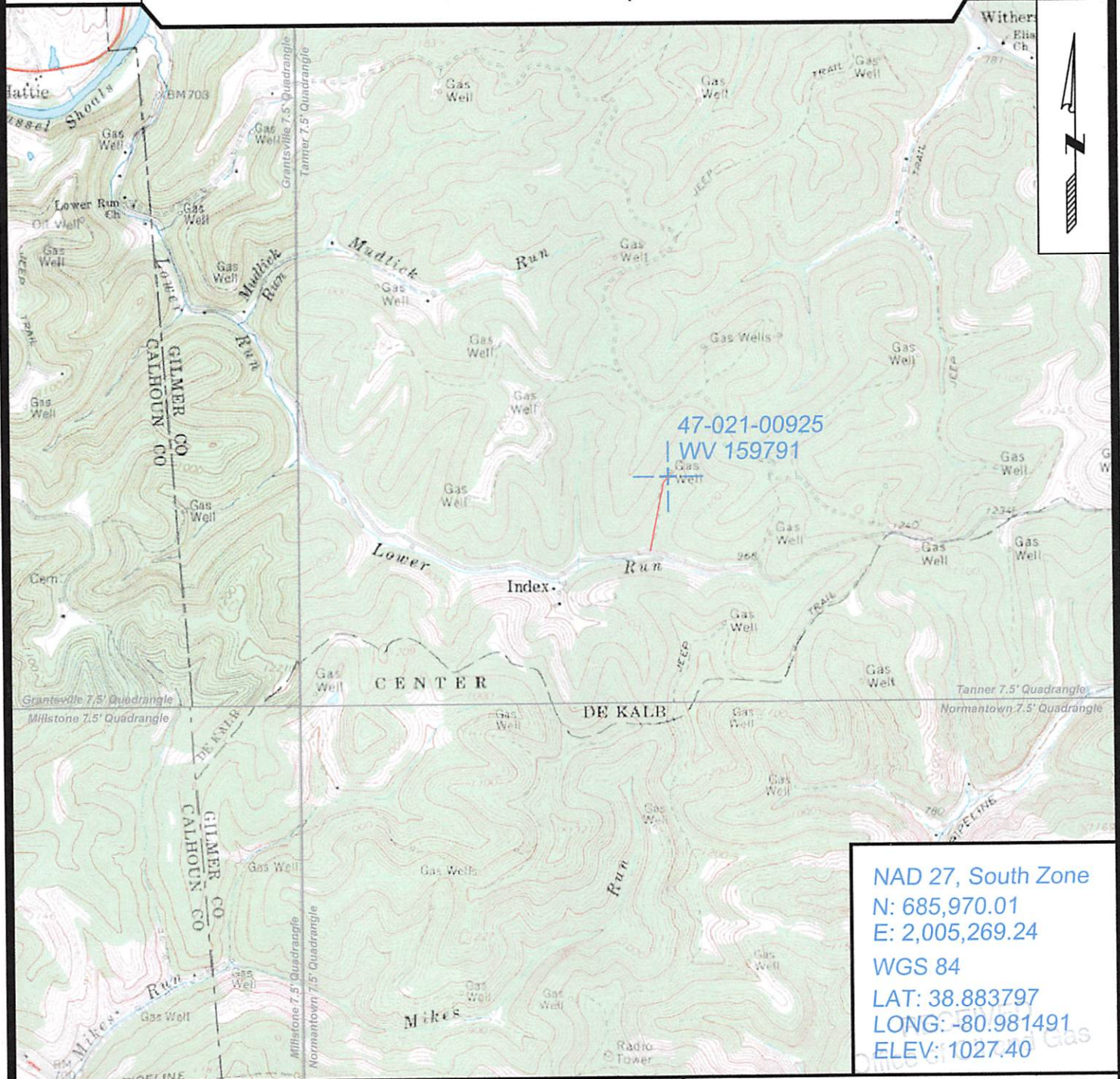
Title: _____ Date: _____

Field Reviewed? Yes No

Topo Quad: Tanner 7.5'Scale: 1" = 2000'County: GilmerDate: October 29, 2013District: DekalbProject No: 25-19-00-07

WV 159791 47-021-00925 (J.D. Smith #6119)

Topo



SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

1-800-482-8606
P.O. BOX 438
BIRCH RIVER, WV 26610
PH: (304) 649-8606
FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280
Bridgeport, WV 26330

NOV 25 2013

Department of
Environmental Protection

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-021-00925 WELL NO.: WV 159791 (J. D. Smith #6119)

FARM NAME: J. D. Smith

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Gilmer DISTRICT: Dekalb

QUADRANGLE: Tanner 7.5'

SURFACE OWNER: State of West Virginia (Division of Natural Resources)

ROYALTY OWNER: J. D. Smith, et al.

UTM GPS NORTHING: 4303892

UTM GPS EASTING: 501620 GPS ELEVATION: 313 m (1027 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential

Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential

4. **Letter size copy of the topography map showing the well location.**

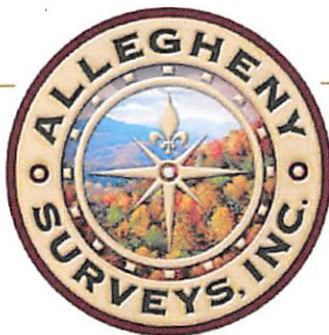
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Signature

Title

Date

RECEIVED
Office of Oil and Gas
NOV 25 2013
WV Department of
Environmental Protection



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. J. D. Smith #6119 WV 159791 (47-021-00925)

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 159821.

BIRCH RIVER OFFICE
P.O. Box 438 • 237 Birch River Road
Birch River, WV 26610
phone: 304-649-8606
fax: 304-649-8608

BRIDGEPORT OFFICE
172 Thompson Drive
Bridgeport, WV 26330
phone: 304-848-5035
fax: 304-848-5037

CALDWELL OFFICE
212 Cumberland Street
Caldwell, OH 43724
phone: 740-305-5007
fax: 740-305-5126

ALUM CREEK OFFICE
P.O. Box 108 • 1413 Childress Road
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-756-2948

Topo Quad: Tanner 7.5'Scale: 1" = 2000'County: GilmerDate: October 29, 2013District: DekalbProject No: 25-19-00-07

Water

WV 159791 47-021-00925 (J.D. Smith #6119)

No potential water wells within 1000'

47-021-00925
WV 159791

NAD 27, South Zone
 N: 685,970.01
 E: 2,005,269.24
 WGS 84
 LAT: 38.883797
 LONG: -80.981491
 ELEV: 1027.40

PREPARED FOR:

EQT Production Company

P.O. Box 280
 Bridgeport, WV 26330

SURVEYING AND MAPPING SERVICES PERFORMED BY:

ALLEGHENY SURVEYS, INC.

1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

